Work Ord December-06-1				*77365*								Page		e 1
Item ID: Revision ID: Item Name:	D350-636-0 Skidtube LH	11			Accept	*N900	040	100	ገ*	Setup	Start Stop	I	S1* S2*	
Start Date: Required Date: Reference:	06/12/2011	Start Qty: Req'd Qty:		*1* *1*	**	Cust Item Customer:								
Approvals:	Process Pla	in: <u>M.C.</u> J		Date: 11 12/C) 6 Tooling: SPC (Y/N):		ate:			Run	Start Stop	1/7	R1* R2*	
Sequence ID/ Work Center II	D	Operation Description	٠		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Rej Qty		Reject Number	Insp. Stamp	
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	scription Sign &		cation ion C	Approval Chief Eng	Approval QC Inspector		
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77365

Page 2

December-06-11 10:30:24 AM D350-636-011 Accept Item ID: *N900040100* Setup Start **Revision ID:** Stop Skidtube LH Item Name: **Start Date:** 06/12/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 20/12/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start Approvals: Process Plan: Date:____ **Tooling:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject **Work Center ID Description** Code Qty **Qty** Run Hours 0.00 110 Skidtubes *110* 0.00 Skidtubes Memo Skidtubes 1- Pick D2600-3 Bent 2- Deburr FWD and AFT ends, remove bending marks. Scribe batch# inside AFT end per dwg D2750 3- Drill pilot holes for blade fitting bolt holes using DT8983. Open to 0.500", deburr. 4- Locate DT8330 off of blade fitting bolt holes and drill pilot holes for blade fitting 5- Drill only two fwd step holes using DT9616. Ensure proper positioning. 6- Drill pilot holes as per Dwg D2750 sheet 4 (D2750-1 details). Drill using drill Jig DT8150 & DT8863A for first side only DT8863B for second side (detail B) 7- Clecko DT8863B on second side of tube and drill pilot holes for detail B. ***SECOND SIDE*** 8-Open up holes for Detail B to 0.375" (4 holes per side) and blade fitting

location holes to 0.500" (total of 4 holes per side) as per dwg D2750. Open up holes for ground handling and detail C to 0.500" (8 holes per side)

9-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to 0.297".

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

Reject

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Work Order ID 77365 *77365* Page 3 December-06-11 10:30:24 AM Item ID: D350-636-011 Accept *N900040100* Setup Start **Revision ID:** Stop Skidtube LH Item Name: Start Qty: 1.00 06/12/2011 **Start Date: Cust Item ID:** Req'd Qty: 1.00 **Required Date: 20/12/2011 Customer:** Reference: Run Start **Tooling:** Approvals: Process Plan: ____ Date: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Reject **Operation** Set Up/ Tool ID Tool # Plan Accept Reject Insp. **Work Center ID** Qty Description Code Stamp **Run Hours** Qty Number 11-Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left from bending as per QSI 004 BE 12-01-16 A/R Aluminum Rod batch: SAD 12-01-19 12-Grind welds flush as per Dwg D2750 120 QC10- Inspect visual per QSI004- ground welds 0.00 512/01/19 *120* QC Memo Quality Control

130

QC5- Inspect part completeness to step on W/O

0.00

130

QC

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Quality Control

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Work Ord December-06-1				*773	365*						Page
Item ID: Revision ID: Item Name:	D350-636-0 Skidtube LH	11		Accept	*N900	040	100)*	Setup Sta	11	IS1* IS2*
Start Date: Required Date: Reference:	06/12/2011 20/12/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item l Customer:	D:					
Approvals:	Process Pla	an:	Date:	Tooling: SPC (Y/N):		ate:]	Run Sta Sto	· 'IX	R1*
Sequence ID/ Work Center II 140 *110 HandFinish Hand Finishing)	Operation Description Chemical Conversion Co	oat per QSI005 4.1	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp

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QC3- Inspect Part Finish

0.00

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Memo

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Quality Control

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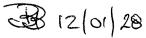
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Required Date: 20/12/2011 Req'd Qty: 1.00 *1* Customer: Reference: Approvals: Process Plan: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: * Gequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Rej	NS2 *
Reference: Run Start *	
Approvals: Process Plan: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject	
Approvals: Process Plan: Date: Tooling: Date: QC: Date: SPC (Y/N): Date: * Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject	
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	NR2*
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60 0.00	
160 Skidtubes Memo 0.00	,
1-Open up holes of Detail C and ground handling to 0.625" (total of 8 holes per side) as per dwg D2750. 2-Open up holes of Detail B to 0.750" (total of 4 holes per side) as per dwg D2750. 3- Open float hole to 0.500" (4 per side) 4-Chamfer holes of Detail B, C, ground handling and float holes per dwg D2750 (welding instructions on sheet 8)	*
5-Deburr and blow out all chips from inside of tube 6- Prepare tube for welding, remove alodine as required.	
7-Bond web D2739 in place as per QSI 015 A/R Sikaflex-291 batch: 1/9508 exp. date: 12/08/13	
8- Weld spacers D3490-1, D3490-3 and D2743 as per dwg D2750 & QS1004 (welding instructions on sheet 8) A/R Aluminum Rod batch:	

10-Grind welds flush as per Dwg D2750



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Work Ord December-06-1				*773	365*					-	Page
Item ID: Revision ID:	D350-636-01	1		Accept	*N900	040	100)* 5	Setup Sta	rt *N	S1*
Item Name:	Skidtube LH								Sto	^p *N	S2*
Start Date: Required Date:	06/12/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
Reference: Approvals:	Process Pla	n:	Date:	Tooling:	D:	ate:	-	F	Run Stai	rt *N	R1*
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Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept. Qty	Reject Qty	Reject Number	Insp. Stamp
		11-Spot face dwg D2750 12-Deburr ho		ection (total of 4 places pe	r side) as per		B	i	31/28		
170		QC10- Inspect visual per	QS1004- ground welds	0.00							
170 QC Quality Control		Memo		0.00 & 12/01/	30						

180

120

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

5 12/-1/70

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Item ID: Revision ID:	D350-636-0	11		Accept	*N900	040	100	ገ*	Setup	Start	*N	IS1*
Item Name:	Skidtube LH									Stop	*N	IS2 *
Start Date:	06/12/2011	Start Qty: 1.00	*1*		Cust Item 1	ID:						
Required Date: Reference:	20/12/2011	Req'd Qty: 1.00	*1*		Customer:							
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:]	Run	Start	*N	R1*
	QC:		Date:	_ SPC (Y/N):	D:	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
190		Pressure Wash per QSI00	5 4.3	0.00						- 1		
100 HandFinish		Memo		0.00					-	AL	12-1-	30 <u>.</u>
Hand Finishing		Re-alodine to	ibe as per QSI 005 section	n 4.1.2.1 do not acid etch.								
200		White Gloss(Ref:4.3.5.1)	per QSI005 4.3-Alum	0.00				1			/	1 1
200 Powder Coating	7482	Memo START TIM OVEN TEMI FINISH TIM	8-,40 PERATURE: 3 E:	25°5 F				ΙΧG	11	M-7	/ 12	101/3/
210		QC3- Inspect Part Finish	V	0.00					,		0.1	1 1

QC

Quality Control

Memo

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Inspect for foreign object per QSI 024

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Work Ordo				*77:	365*							Page 8
Item ID: Revision ID: Item Name:	D350-636-01 Skidtube LH	1		Accept	*N900	<u>040</u>	100)*	Setup	Start Stop	IVI	S1* S2*
	06/12/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					IV	.7/
Approvals:	Process Pla	n:	_ Date:	Tooling:	D:	ate:	-]	Run	Start	1/1	R1*
	QC:		Date:	SPC (Y/N):	Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
*220 *220 *220 *1 *220 *AndFinish Hand Finishing		HandFinishing Memo 1- Install ins	serts as per Dwg D2750	0.00					(f	H	nlout:
²³⁰ *230*		HandFinishing		0.00				١		d	o	12/01/31
HandFinish Hand Finishing	·		r Foreign Objects de of tube with "LPS-3"	0.00 batch: \\						9 _	24	16101[31
		3-Install blad per dwg D2' SIKA FLEX BATCH:	de fitting D3488-041, we	arshoes and ground handli	ng hardware as							

4-assemble o'ring to plug as per dwg D3492 and apply o'ring lube A/R 55-o'ring lube batch: 人人 リロコート

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DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC	Initial	Corrective Action Section Action Description	B Sign 8		ation	Approval	Approval
		Section A	Chief Eng	Chief Eng	Date			Chief Eng	QC Inspector
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Work Ord December-06-1				*773	65*						Page
Item ID: Revision ID: Item Name:	D350-636-0 Skidtube LH	11		Accept	*N900	040	100)*	Setup Sta	IV	S1* S2*
Start Date: Required Date: Reference:	06/12/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
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	QC:		Date:	SPC (Y/N):	Da	ıte:			Sto	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
* ?40 * QC Quality Control		QC5- Inspect part compl	eteness to step on W/O	0.00 S 12 log)0			<u> </u>			-
250		Pick Kit	·	0.00					7	·	
250 Packaging		Memo		0.00			(1-12	12/6_		

260

Packaging

QC4- 100% Inspect kits for completeness

Memo

Quality Control

******ensure antiseize is on AN8C21A bolts******

W/O:	· ·		WC	RK ORDER CHANGI	ES				, , 6
DATE	STEP	PR	OCEDURE CHAI		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Work Ord December-06-1				*77:	365*							Page 10
Item ID: Revision ID:	D350-636-0	11		Accept	*N900	040	100)*	Setup	Start	*N	S1*
Item Name:	Skidtube LH								,	Stop	*N	S2*
Start Date:	06/12/2011	Start Qty: 1.00	*1*		Cust Item I	D:						
Required Date	: 20/12/2011	Req'd Qty: 1.00	*1*		Customer:							
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	QC:		Date:	_ SPC (Y/N):	Da	ite:				Stop	*N	R2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
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* 77 0* Packaging		Packaging Memo		0.00					10,	4/2	16 (<u></u>
Packaging			per PPP D350-636-011	0.00						/ /		
											1	10
280		QC21- Final Inspection -	Work Order Release	0.00						12/	2 H	dex
280		Memo		0.00								$(\mathcal{I}_{\mathcal{Y}})$
Quality Control											MF	02-06
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DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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Picklist Print

December-06-11 10:30:27 AM

Work Order ID: 77365

77365

D350-636-011

Parent Item Name:

Skidtube LH

D350-636-011

Start Date: 06/12/2011

Required Date: 20/12/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP Rev:I 02.09.25 Rearranged procedure steps KJ

IPP Rev:J 06-03-23

As per Rev D

JLM

IPP Rev:K 06-07.13 As per dsi9343

EC

IPP Rev:L 07-07-28 Added SS Wearplates(Rev E) JLM Verf:EC IPP Rev:M 08-04-22 update steps 4, 13 DD verified by:EC

IPP Rev:N 08-09-23 revF as per dwg DD verified by:ec

DD verf:EC

IPP Rev:O 09-02-06 apply antiseize on AN8C21A bolts as per PAR09-010 IPP Rev:P 10.06.22 revise

seq110 DD verf:EC

IPP Rev:Q 10.10.01 as per IIN revH

DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3492-1		Manufactured	No			230	Each	110.0000	8	8			
D3492-1									**	Jel	12/01/	3_)	
				Location]	Loc	<u>Qty</u>	Loc Code					
				FP-A			100						
					76235		100		_	_X &	_		
				FP-B			10						
					69531		8						
					74444		2		_				
D3492-3		Manufactured	No			230	Each	109.0000	8	8			
D3492-3									**	الا	(2/01	13,	
				Location		Loc	<u>Oty</u>	Loc Code					

FP-A 76236 FP-B

Loc Code

74447 74871 25 44

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Picklist Print December-06-11 10:30:27 AM				1980			•		Page 2
Work Order ID: 77365 Parent Item: D350-636-011 Parent Item Name: Skidtube LH			7365*)350-636-0)11*			tart Date: Start Qty:	06/12/2011 1.00	Required Date: 20/12/2011 Required Qty: 1.00
NAS1611-010	Purchased	No		230	Each	183.0000	8	8	
NAS1611-010							**	1/12012	1 M (x8) 12/01/3
			Location FP 110915 117460 118077 118612 119438 119623	<u>L</u>	0c Oty 183 14 8 1 3 107 50	<u>Loc Code</u>			
NAS1149D0863J *NAS1149D0863 WASHER	Purchased	No	117020	250	Each	192.0000	2 **	2 .	
·			<u>Location</u> ST298 118078 119307	<u>L</u> .	192 92 100	Loc Code		115078	
D2744 *D2744* Cap	Manufactured	No		110	Each	41.0000	1 **	1	BE 12-01-16
			Location LG002 62715 70881 71861	<u>L</u> .	9c Oty 41 1 12 28	Loc Code			

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DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector							
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NCR:		V	VORK OR	DER NON-CONFORM	ANCE (NCF	R)									
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Sect Action Description Chief Eng	ion B Sign & Date	Verification Section C		Approval QC inspector							
<u> </u>			Chief Eng	Chilei Eng	Date										
				ı											
					. 38										
		;			1										

	ed Date: 20/12/2011 red Qty: 1.00
Parent Item: D350-636-011 *D350-636-011 *D350-636-011 *D350-636-011 * Skidtube LH	
Start Qty: 1.00 Requir	~~ ~tj
D2600-3-BENT Manufactured No 110 Each 17.0000 1 I	
D2600-3-RFNT Extrusion Bent **	
<u>Location</u> <u>Loc Oty</u> <u>Loc Code</u>	
LG 17	
66875 8	
73253	
75021 1 75022 6	
$\frac{75022}{75023}$ 1 $$	N 12-1-9
D2743 Manufactured No 74623 160 Each 225.0000 8 8	΄
D2743 Crossbolt Spacer	BE12-01-23
<u>Location</u> <u>Loc Qty</u> <u>Loc Code</u>	
LG 218	
73403 64	
74445 100	
76141 54	
LG001 7	
67766 4	
68251 3	
D2739 Manufactured No 160 Each 13.0000 1 1	/
D2739 ** De 12 61	/2a
350 I Beam 78420	
Location Loc Oty Loc Code	
LG 13	
72155	
76866 1	
76867 3	
76987 8	

Dail AC	ospace	LU											
W/O:		3 100	W	ORK ORDER CHANG	GES					· · ·			
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			

Part No	:	PAR #:	Fault Cat	egory:	_ NCF	R: Yes N	lo DQ	A :	Date:	<u> </u>			
	R	esolution:	Dispositi	gory: NCR: Yes No DQA: Date: n: QA: N/C Closed: Date: ER NON-CONFORMANCE (NCR)						·			
NCR:		•	WORK ORDER NON-CONFORMANCE (NCR)										
DATE	STEP	Description of NC			tion B	Cian 9	Verific			Approval			
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti	on C	Chief Eng	QC inspector			
		·						_					
						×							

	•											
W/O:			WC	RK ORDER CHANG	ES							
DATE	STEP	PRC	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DQA	\ :	Date:				
	R	esolution:	Disposition	1:	_ QA: N/C CI	Yes No DQA: Date: WC Closed: Date:						
NCR:		\	NORK ORDE	ER NON-CONFORMANCE (NCR)								
DATE	STEP	Description of NC				Verific		Approval	Approval			
	O.L.	Section A Initial Action Description Sign	Date	Section	on C	Chief Eng	QC Inspector					
								:				

Picklist Print December-06-11 10:30:28 AM									Page 5
Work Order ID: 77365 Parent Item: D350-636-011 Parent Item Name: Skidtube LH		*773 *D3	365* 50-636-0	711*				06/12/2011	Required Date: 20/12/2011
							Start Qty:	1.00	Required Qty: 1.00
AN8C35A BOLT	Purchased	No		230	Each	93.0000	1 **	1 	12/0/13/
		F	115960 <u>117834</u> 118286 T346	<u>Lo</u>	92 1 1 29 62 1	Loc Code			- - - -
D3793-1	Manufactured	No	114442 115188 115960	230	0 0 1 Each	20.0000	1	1	- - -
D3793-1 Wearshoe	Manufactured	NO		230	Each	20.0000	**	1	12/0/13(
		F	ocation P001 7 <u>5038</u> P018 74591	<u>Lo</u>	12 12 8 8	Loc Code			- -
D3488-041 *D3488-041 Blade Fitting Assembly, LH	Manufactured	No		230	Each	20.0000	1 **	1 B770	21 (x1) M 12/01/3
		FO	75056 75056 2002 61689 67788	<u>Lo.</u>	9 9 11	Loc Code			- - -
			69903 71887		4 5				- - -

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W/O:			WC	ORK ORDER CHANG	GES					·
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		•								
Part No	:	PAR #: Fault Category: NCR: Yes No DQA: Date: _ Resolution: Disposition: QA: N/C Closed: Date:								
	R	esolution:	Disposition	n:	QA:	N/C CIG				
NCR:			WORK ORDI	ER NON-CONFORM	ANCE	(NCR)	•		
DATE		Description of NC			ction B		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti		Chief Eng	QC Inspector
		·								

Picklist Print December-06-11 10:30:28 AM												Page 6
Work Order ID: 77365		*7	736	5*				****	_			
Parent Item: D350-636-011				-636-0	ገ11*							
Parent Item Name: Skidtube LH		• .	,,,,,,,,	, – (),)() – (,,,,			tart Da Start Q		.00	Required Date: 2 Required Qty: 1	
D3794-3	Manufactured	No			230	Each	23.0000		1	1		
D3794-3								**		M	12/01/31	···· — — — ····
			<u>Locati</u>	<u>on</u>	<u>1</u>	oc Oty	Loc Code					
			FP002			23						
				74530		9				 		
ANICOMA	5 1 1	NI-		7 <u>4596</u>	230	14	82.0000			_ X \	_	
AN6C44A	Purchased	No			230	Each	83.0000	ala ala	4	4		
AN6C44A								**			12/01/75	
			Location	<u>on</u>	<u>L</u>	oc Qty	Loc Code					
			FG	102064		2						
			CT2 42	103964		2				***************************************	<u> </u>	
			ST343	118985		81 40						
				119125		30				-X4	_	
				119530		11					_	
MS21083C8	Purchased	No			230	Each	78.0000		1	1		
MS21083C8								**		Jel	12/0/13/	
			<u>Locatio</u>	<u>on</u>	<u>L</u>	oc Qty	Loc Code					
			FP-B			ì					_	
				115884		1					<u> </u>	
			ST293			1						
				118077		1						
			ST303	115004		76					_	
				115884 <u>[186]4</u>		0 23					_	
				119309		3				<u></u>	_	
				119436		25					_	
				119638		25					_	

		<i></i>								
W/O:			W	ORK ORDER CHANG	ES			-		, , , , , , , , , , , , , , , , , , , ,
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	1	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No:PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Corrective Action Section B										
	Resolution: Disposition: QA: N/C Closed: Date:									
NCR:			WORK ORI	DER NON-CONFORMA	ANCE (N	CR)				
DATE	CTED	Description of NC					Verific	ation	Approval	Approval
DATE	SIEF									QC Inspector
									!	

Picklist Print

December-06-11 10:30:28 AM

Work Order ID: 77365

D350-636-011

Manufactured

Manufactured

Parent Item Name: Skidtube LH

77365 *D350-636-011*

Start Date: 06/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Oty: 1.00

D3536-25

Parent Item:

D3536-25

Location FP012 74595

Location

ST072

75039

230

Loc Qty

Loc Qty

Loc Qty

31

5

26

Each

230

Each

447.0000

31.0000

Loc Code

**

Milodze

D3631-1

Washer

D3791-1

D3631-1

Manufactured

447 68062 2 445 75548 230 Each

31.0000 **

Loc Code

Loc Code

D3791-1

Wearplate

Location FP002 75041 FP017 62239

74527 74598

16 16 15 2 12 230 Each 0.0000

38

AN960C10L

Purchased

No

**

M119736 (x38) M12/01/31

*AN960C10I * *

W/O:			WC	ORK ORDER CHANG	ES									
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
-			· · · · · · · · · · · · · · · · · · ·					.,						
Part No						es No DQA: Date:								
	R	esolution:												
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCF	(NCK)								
DATE	STEP	Description of NC	11411	Corrective Action Section	on B Sign 8		cation	Approval	Approval					
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Date	Secti	on C	Chief Eng	QC Inspector					
		,												
		·												

December-06-11 10:30:28 AM									Page 8
Work Order ID: 77365		*77	7365*						
Parent Item: D350-636-011			350-636-	011 *					
Parent Item Name: Skidtube LH			. ,. ,. ,–, ,. ,. ,. ,–,	, , , , , , , , , , , , , , , , , , ,			tart Date: Start Qty:	06/12/2011 1.00	Required Date: 20/12/2011 Required Qty: 1.00
D2745	Manufactured	No		230	Each	85.0000	8	8	
D2745							**		12(x8) Il nlo 13(-
•			Location	<u>L</u>	oc Qty	Loc Code			
			FP		85				_
	•		69529		1				
			71835		12				_
			74446		72				
AN3C5A	Purchased	No		230	Each	1,278.000			1
AN3C5A							**		12/01/31
			Location	<u>L</u>	oc Oty	Loc Code			
			FP		7				_
			115835		7				_
			ST350		1271				
			116419		28				_
			117343		17				_
			117764 117872		49 2				_
			118451		175				_
			<u> 119127</u>		500			28	_
			119749		500			(9	
D3537-1	Manufactured	No		230	Each	100.0000	3	. 3	
D3537-1 Wearpad							**	13773	560(x3) H12/01/
			Location	<u>La</u>	oc Oty	Loc Code			
			FP002		95				_
			74436		23				_
			74867		72				_
			FP017		5				-
			69817		5				_

W/O:			WC	ORK ORDER CHANG	ES			
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date C	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		,						
Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) Corrective Action Section B Verification Annual Action Section B								
Resolution: Disposition: QA: N/C Closed: Date								
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NCR)		
DATE	STEP	Description of NC				Verificati		Approval
DAIL	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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		1131		

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Work Order ID: 77365

D350-636-011

Parent Item Name: Skidtube LH

77365 *D350-636-011*

114915

117872

118422

119449

119749

Start Date: 06/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0832R

Parent Item:

Purchased

Purchased

No

No

230

Each

325.0000

**

NAS1149C0832R

WASHER

Location ST297

Loc Qty 325 325

Each

5

62

100

100

Loc Code

318.0000

**

AN3C6A

AN3C6A

Location Loc Qty

230

FP 111982 ST351 317 111982 2 116419 23 116549 2 12 116704 117619 10 117688

Loc Code

Dail Ac	ospace	Liu							
W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
·									
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
		esolution:							
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description	Sign 8	Verific Secti		Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng	Date				
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Duit Au	oopuoc	, Eta							
W/O:			W	ORK ORDER CHANG	ES				• • •
DATE	STEP	PR	OCEDURE CHA	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	:								
Part No	:	PAR #:	Fault Cate	egory:	_ NCR: Yes	No DQ	A :	Date: _	
	R	esolution:	Disposition	on:	_ QA: N/C C	losed:		Date: _	
NCR:		,	WORK ORD	ER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC	Initial	Corrective Action Section Action Description	on B Sign		cation	Approval	Approval
		Section A	Chief Eng	Chief Eng	Date		ion C	Chief Eng	QC Inspector
				•					

Picklist Print December-06-11 10:30:28 AM						·			Page 11
Work Order ID: 77365		*7	7365*	-					
Parent Item: D350-636-011 Parent Item Name: Skidtube LH			350-636-0)11*			art Date: 0		Required Date: 20/12/2011 Required Qty: 1.00
MS21043-6 *MS21043-6* NUT	Purchased	No		230	Each	425.0000	4 **	4)U	12/6/13/
			<u>Location</u> FG 103693	<u>L</u>	oc Oty 20 20	Loc Code			_ _
			ST300 112314 117887 118384		405 195 10 200	X		<u>x</u> .4	_ _ _
*D3493-1 *D3493-1* Washer	Manufactured	No		250	Each	45.0000	2 **	² 775	73
			Location ST062 70697 71846 76237	<u>L</u> .	45 4 11 30	Loc Code			
MS21083C8 *MS21083C8*	Purchased	No		250	Each	78.0000	2 **	2 /2 3)	72 /12/3 (
			Location FP-B 115884 ST293 118077 ST303 115884 118614	<u>L</u>	1 1 1 1 76 0 23	Loc Code			_ · · · · · · · · · · · · · · · · · · ·
			119309 119436 119638		3 25 25				- - -

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W/O:			W	ORK ORDER CHANC	GES		 		
DATE	STEP	PR	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		•							
Part No		PAR #:	Fault Cat	egory:	NCR: Ye	s No DC	A:	Date:	
	Res	solution:	Dispositi	on:	QA: N/C	Closed: _		Date:	
NCR:			WORK ORE	DER NON-CONFORM	ANCE (NO	CR)			
DATE	STEP	Description of NC	Imiai a I		tion B		ication	Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Da		tion C	Chief Eng	QC Inspector
				·					
							-		

Picklist Print December-06-11 10:30:28 AM										Page 12
Work Order ID: 77365	-	*7	736!	5*						
Parent Item: D350-636-011				-636-(ገ11*				0.6/10/10011	
Parent Item Name: Skidtube LH								tart Date: Start Qty:	06/12/2011 1.00	Required Date: 20/12/2011 Required Qty: 1.00
AN8C21A	Purchased	No			250	Each	55.0000	2	2	
AN8C21A								**	atto. stear	Či.
			Locatio	<u>on</u>	<u>L</u> e	oc Qty	Loc Code			
			ST343			55				
				118045		5				<u> </u>
				118758		20			1000	> _)
				119530		30			1733	50
NAS1515H3L	Purchased	No			230	Each	131.0000	4	4	
*NAS1515H3I *								**	M	12/01/31
			<u>Locatio</u>	<u>n</u>	<u>La</u>	c Qty	Loc Code			
			FG			40				
				102472		40				
			ST277			91				_
				118686		3				
				119438		88			XU	<u>. </u>
/ D2741	Manufactured	No ·			250	Each	38.0000	1	1	
* D741* Blade, 350 Skidtube								**	7/80	56 C 12/22/2
			Locatio	<u>n</u>	Lo	c Oty	Loc Code			,
			ST			-4				
				71856		6				_
			ST466			42				
				71856		32				

W/O:			V	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date C	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
<u>.</u>										
· · · · · · · · · · · · · · · · · · ·										
Part No	·	PAR #:	Fault Ca	tegory:	_ NCR	: Yes N	o DQA:		Date: _	
	R	esolution:							Date:	
NCR:		· \	WORK OR	DER NON-CONFORMA	ANCE	(NCR)				
DATE	STEP	Description of NC	Initial	Corrective Action Section Description	ion B	Sign &	Verificati		Approval	Approval
		Section A	Chief Eng	Chief Eng		Date	Section () 	Chief Eng	QC Inspector
							-			
				•						

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Work Order ID: 77365

Parent Item:

D350-636-011

Parent Item Name:

Skidtube LH

77365

D350-636-011

Start Date: 06/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

D3532-1

D3532-1

Space

Manufactured

No

250

Each

42.0000

. -

**

B78837 (c/p/s/60

Location	Loc Oty	Loc Code	
ST065	42		
73342	2		
74880	40		-M-1

Duit Ac	ospace	LIU								
W/O:			WC	RK ORDER CHA	NGES		· · · · · · · · · · · · · · · · · · ·			• • •
DATE	STEP	PRO	OCEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	jory:	NCF	R: Yes	No DQ	A:	Date: _	
	Re	solution:	Disposition	n:	QA:	N/C CId	sed:		Date: _	
NCR:		,	WORK ORDE	R NON-CONFOR	MANCE	(NCR)			
DATE	STEP	Description of NC			Section B	<u> </u>	Verific	cation	Approval	Approval
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	on	Sign & Date	Secti	on C	Chief Eng	QC inspector
										i
									•	
	1		1		i		1			

QTY QTY -042 -043 QTY -044 PART NUMBER DESCRIPTION -041 350 SKIDTUBE ASSEMBLY, LH Х D2750-041 350 SKIDTUBE ASSEMBLY, RH X D2750-042 D2750-043 350 SKIDTUBE ASSEMBLY, LH Х D2750-044 350 SKIDTUBE ASSEMBLY, RH D2739 WEB SPACER 8 8 8 D2743 CAP 1 D2744 1 1 BUSHING 8 8 8 D2745 D2750-1 SKIDTUBE WELDMENT, LH D2750-2 SKIDTUBE WELDMENT, RH D2750-3 SKIDTUBE WELDMENT, LH D2750-4 SKIDTUBE WELDMENT, RH D3488-041 BLADE FITTING, LH D3488-042 BLADE FITTING, RH D3490-1 SPACER 4 4 4 D3490-3 SPACER 4 SPACER 4 D3490-5 D3492-041 PLUG ASSEMBLY 8 8 D3492-043 PLUG ASSEMBLY 8 8 D3492-045 PLUG ASSEMBLY 1 D3535-25 WEARSHOE 1 1 D3536-25 GASKET 1 3 3 3 D3537-1 WEARPAD WASHER D3631-1 8 8 8 8 D3791-1 WEARPLATE WEARSHOE D3793-1 1 1 1 D3793-3 WEARSHOE 1 1 D3794-1 GASKET 1 D3794-3 GASKET 1 INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225) 38 38 38 38 ALS4-1032-225 34 AN3C5A 34 34 34 BOLT 4 4 4 AN3C6A BOLT 4 AN6C44A 4 BOLT 1 1 1 AN8C35A BOLT 38 38 38 38 AN960C10L WASHER AN960C816L WASHER 1 1 1

7

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. 77565 M.L.J 11/12/06

1 .

D

F	QTY (3) D3791- D3794- ADD D3 WEARS (8 PL), 1 D3488- ADD NO	PORATE DSI 9 D3537-1 WAS 1/-3 REPLACE 1/-3 REPLACE 1/-3 REPLACE 1/-3 REPLACE 1/-3 REPLACE 1/-3 REPLACE D141/-D42 HARD D1E 12 AND 1: N: REF. NCR	S QTY (5) (ZN C8-1); S D353-51-37-35 (ZN C8-1); S D3536-13/-35 (ZN B8-1); -1); UNDER FWD/AFT SADDLE REMOVED HARDWARE OTY UPDATED (ZN B8-1); DWARE UPDATED (ZN C1-8, 9, 10, 11); 3 (ZN A6-1);	PH	08.07.16		
E	ADD RU	BBER GASKE	ESS STEEL WEARPLATES; ETS; CHANGE INSERTS; ADD D3631-1; AS1515H3L; REMOVE QTY (10) VE D2741, QTY (2) AN960C816; 21083C8	СВ	07.05.17		
D	ADD HO	LES AND SPA	ACERS FOR APICAL FLOATS; 9133/9157	РН	06.01.05		
С	ADD D2	750-3/D2750-	4; INCORPORATE D2738 AND D2740	CP	98.11.18		
В	CHANG	E MS24694-S	293 TO AN8-16A	CP	98.09.01		
A	NEW IS	SUE		DS	98.04.16		
REV.			DESCRIPTION	BY	DATE		
DESIG	N	PU,	DART AEROSPACE	USA.	INC.		
DRAW	٧	RH	PORT HADLOCK				
CHECK	ED	1	DRAWING NO.		REV. F		
MFG. A	PPR.	ALC:	D2750	s	HEET 1 OF 11		
APPRO	VED	150	TITLE		SCALE		
DE APE	PR .	7.7	350 SKIDTUBE ASSEMBLY NTS				

2

GENERAL NOTES:

8

D

С

MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

MS21043-6

1 MS21083C8

4

1

H: ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB. POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3 BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).

NUT

NUT

WASHER

TOLERANCES: PER DART OSI 018 UNLESS OTHERWISE NOTED UNITS: INCHES UNLESS OTHERWISE NOTED

4

4 4 4 NAS1515H3L

BREAK SHARP EDGES: N/A

1 1

IDENTIFICATION: N/A

WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS

WELD PER DART QSI 004
INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES (Ø0.297) FOR WEARSHOE INSERTS
FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM YIELD TENSILE STRENGTH = 35 KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER.
SPACER AND PLUG INSTALLED SAME AS SECTION ALLA LEYCEDT HODIZONTAL

SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL AS SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

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D2750-041 350 SKIDTUBE ASSEMBLY, LH

D2750-042 350 SKIDTUBE ASSEMBLY, RH



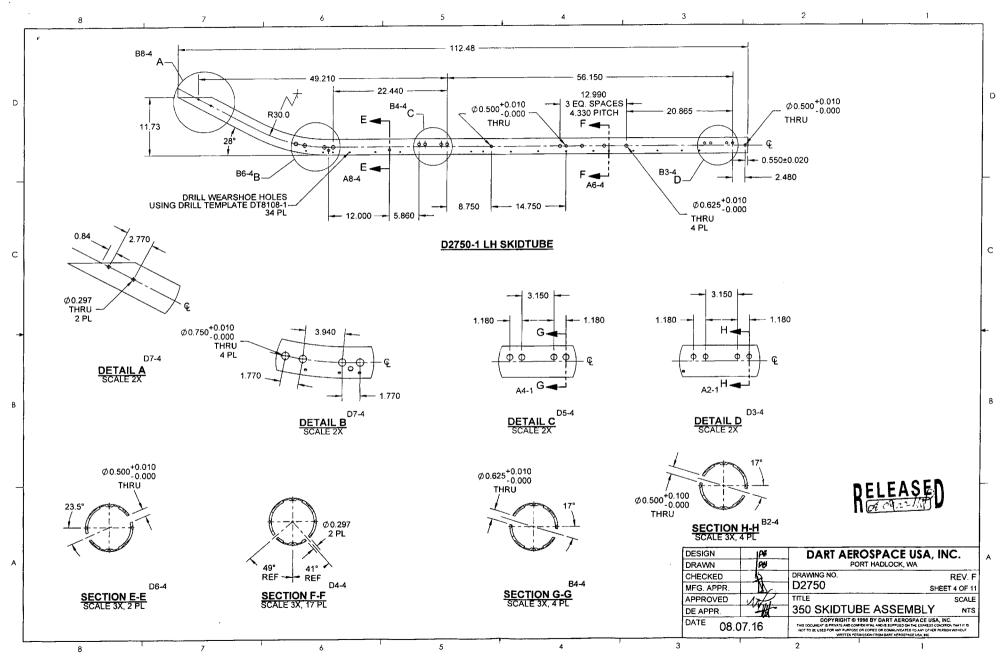
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MFG. APPR.	1	D2750 SHEET 2 OF 11
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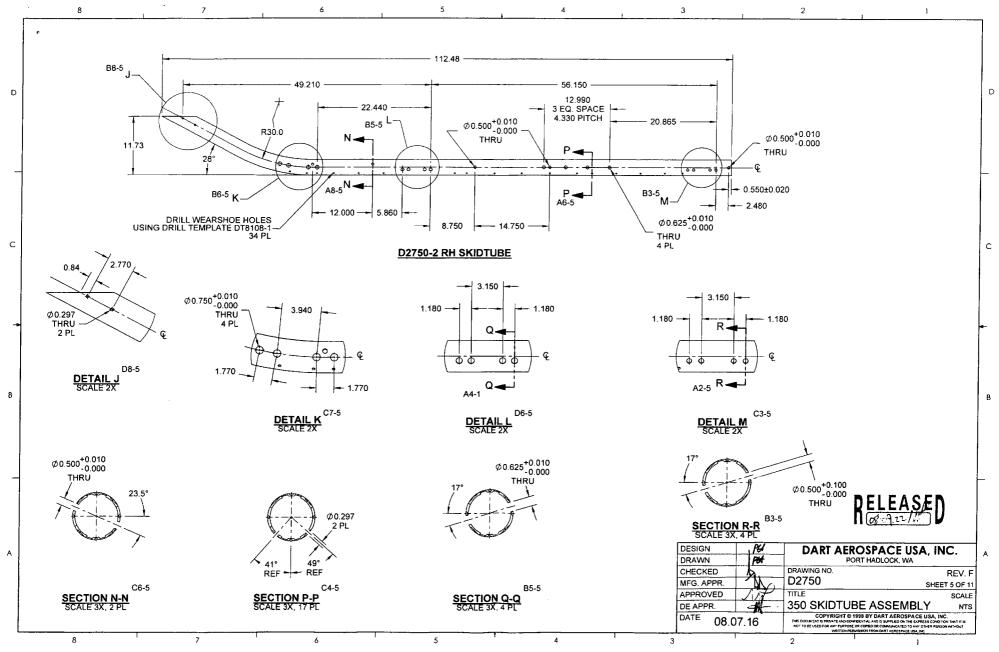
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С D2750-043 350 SKIDTUBE ASSEMBLY, LH D2750-044 350 SKIDTUBE ASSEMBLY, RH DESIGN DART AEROSPACE USA, INC.
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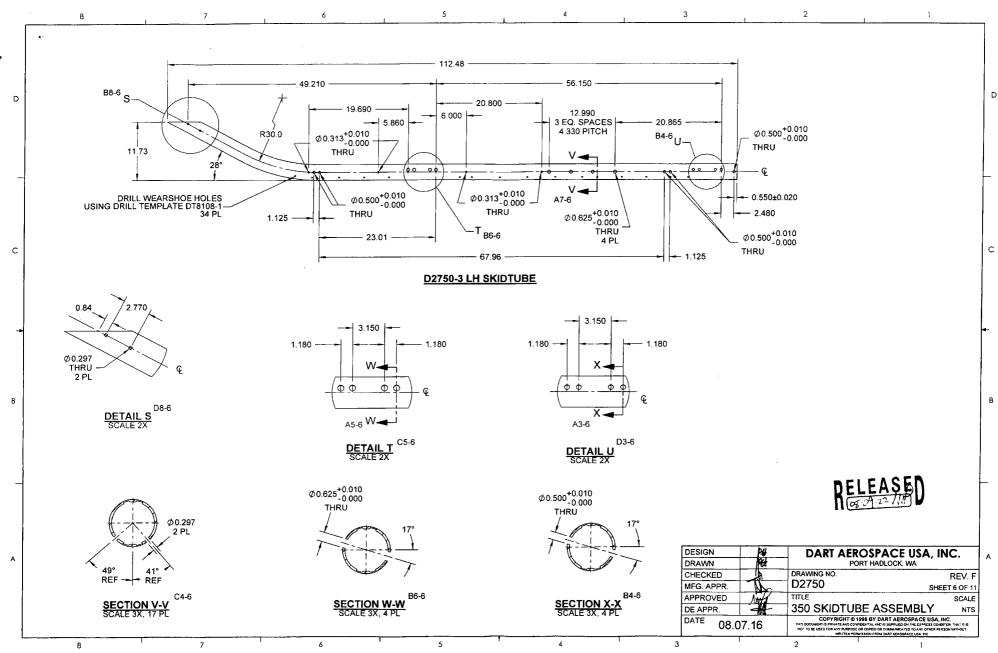
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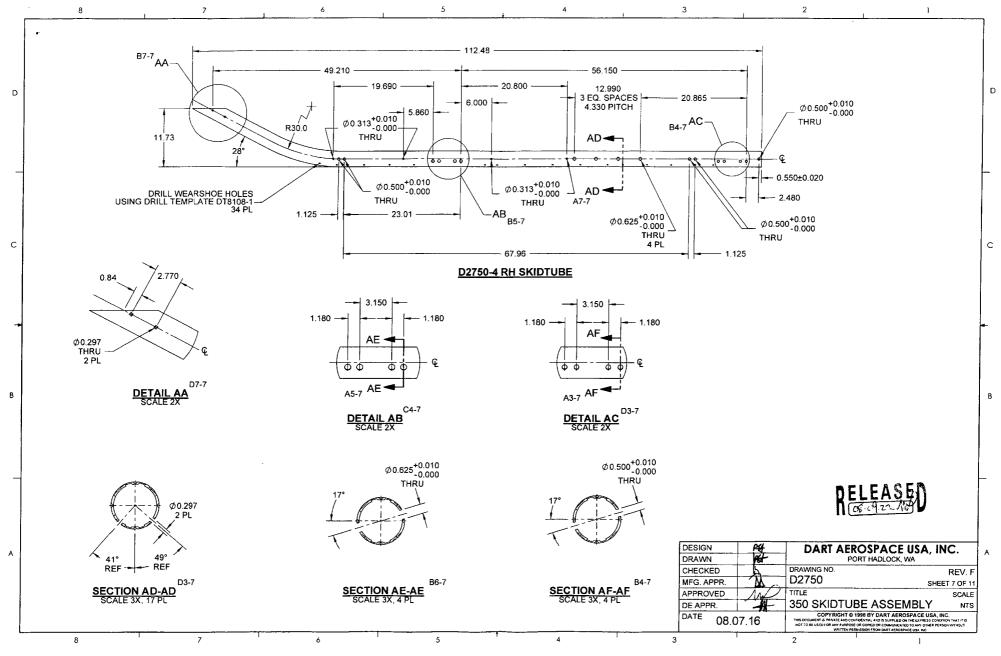
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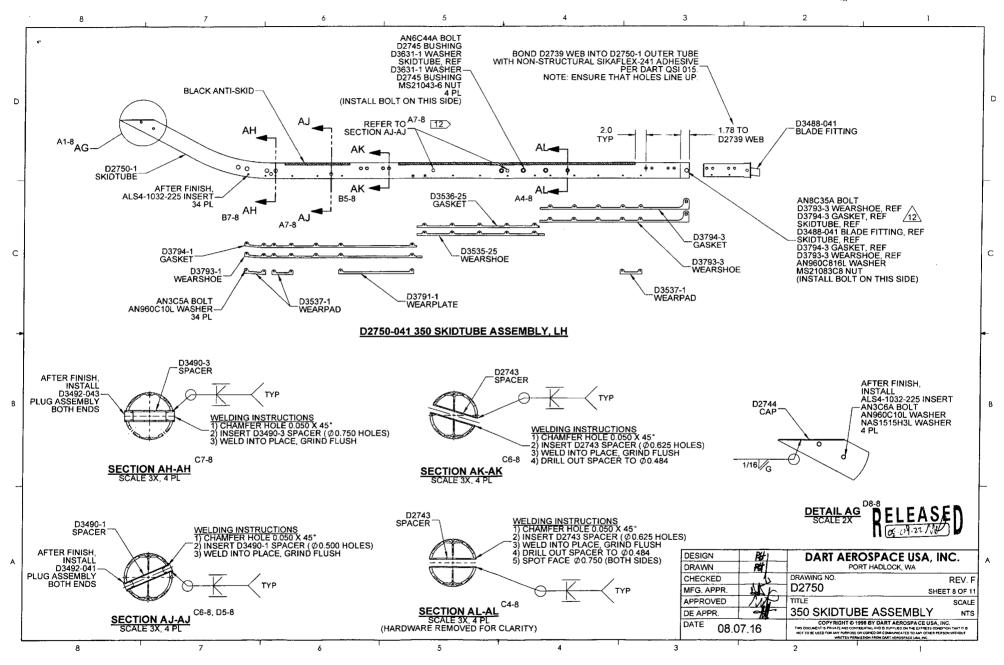
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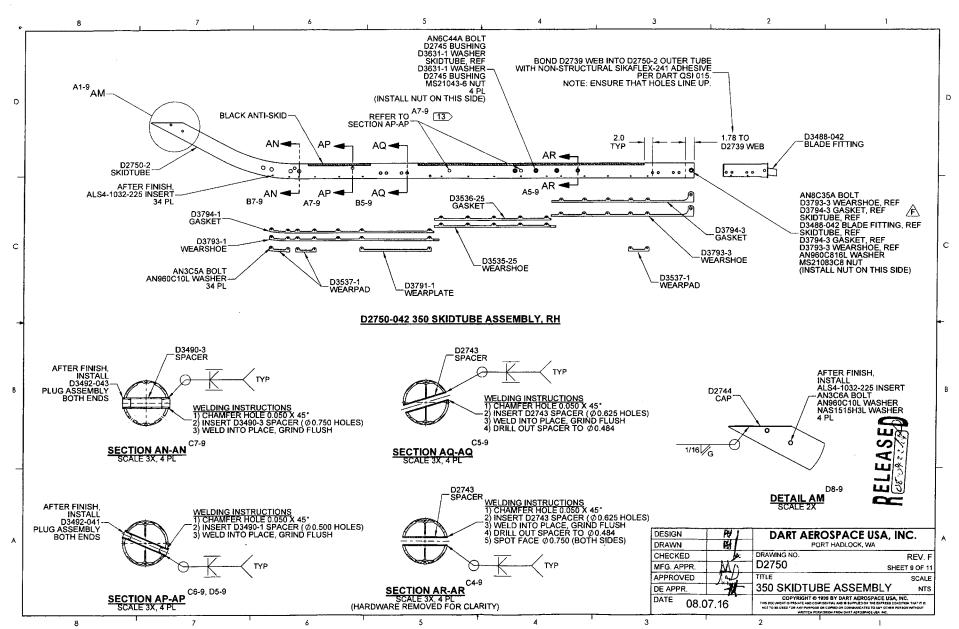
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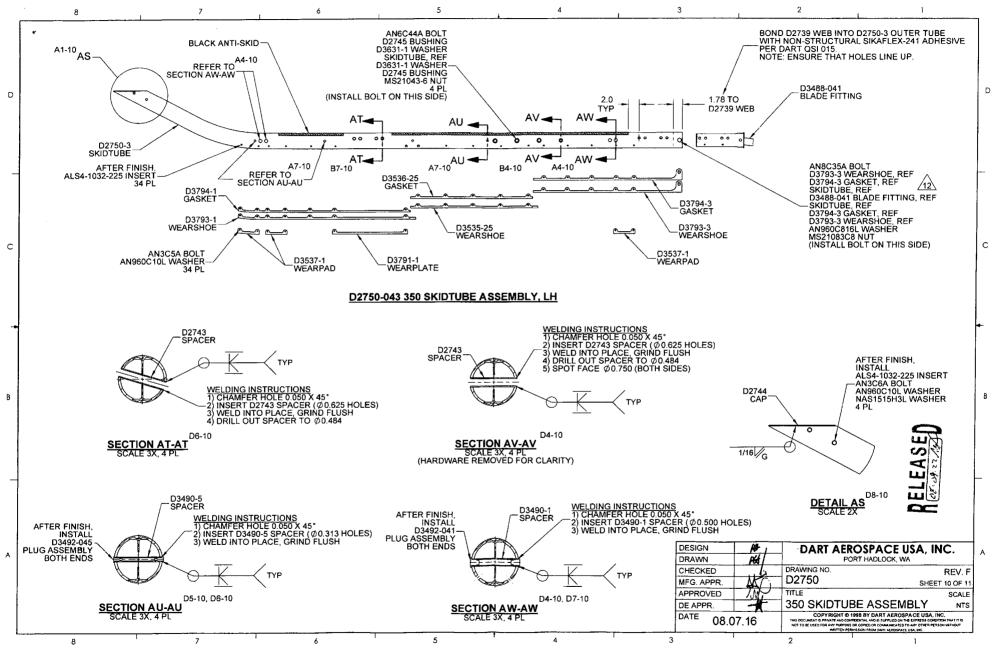
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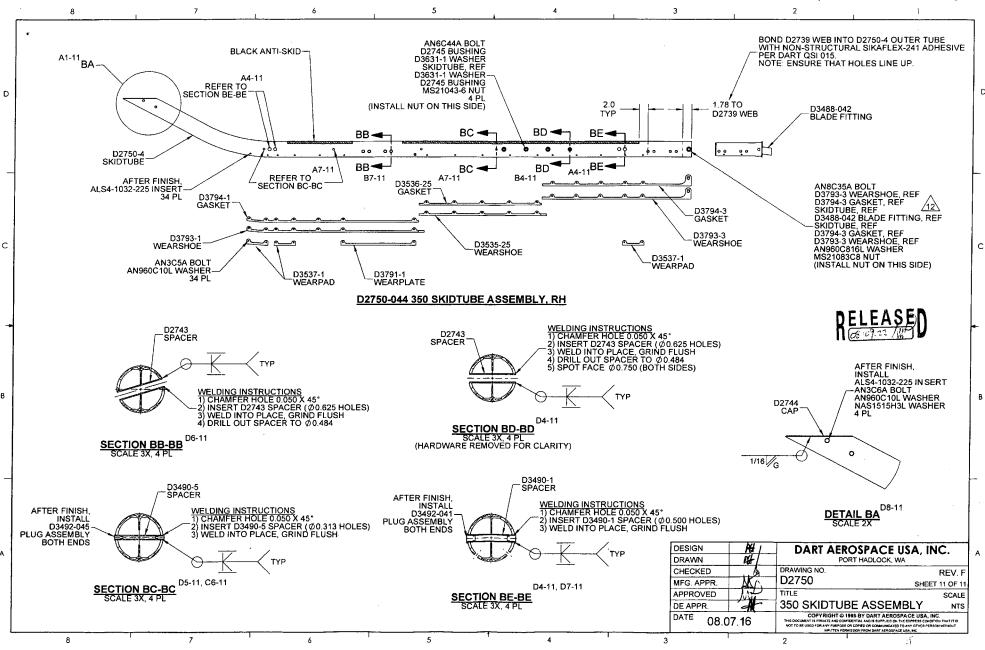
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NO. 279

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclay	Elleott							
Job number: 77 366								
Part number: 10 350	636 012							
Description: 350	Skiallibe							
Base materiel:	remeden							
Current: AC DC[]								
		TO DECLUT TO						
<u>TEST</u>	REQUIREMENTS AN	D KESUL 15						
	,							
Visual:	pass fail[]							
Penetration:	pass[fail[]							
UNACCEPTABLE								
Cracks:	pass[V fail[]							
Undercut:	pass[V fail]	•						
Pin holes:	pass[fail]	• .						
Overlap (cold lap)	pass[X] fail[]							
Porosity (surface):	pass[X fail[]	·						
Coloration:	pass[X] fail[]	•						
Coloration.	pass(x) rant j							
//0 /		•						
Qualifier Sat full	Date of Test Coupon_	11.12.22						
Welder Buckey Ell	Date of Test Coupon_	11-12-22						
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The above named individual is qualified in accordance with AWS D17.1.2001 to weld